Advances in Civil Engineering

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Special Issue on

Artificial Intelligence and Internet of Things (IoT) in Civil Engineering

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Today, many artificial intelligence and Internet of Things (IoT) applications have been developed successfully, and often demand low latency and quick responses. With the progressive development of Internet technologies and service-oriented applications, artificial intelligence and IoT plays an increasingly important role in Engineering Management. Artificial intelligence and IoT technology can connect billions of intelligent machines, allowing communication and smart actions.

However, artificial intelligence and IoT have not yet been fully applied to the practice of civil engineering, especially in the fields of measurement and control. Monitoring and data sensing in civil engineering are in urgent need of artificial intelligence and IoT technology, whose fuzzy processing, integrated intelligence, big data transmission, and other techniques need to be improved to better solve complex problems. In addition, many problems in the field of civil engineering, especially in construction measurement, construction management, and engineering control, are influenced by a range of external uncertainties and could be solved not only with the necessary experience of practitioners but could also depend on the advanced artificial intelligence and IoT procedures.

This Special Issue focuses on the challenges and problems in Artificial Intelligence and Internet of Things (IoT) in Civil Engineering Measurement and Control. It aims to share and discuss the recent advances and future trends of intelligent monitoring techniques, data predictive analytics, smart sensors, civil engineering, artificial intelligence, Internet of Things (IoT), advanced measurement techniques, advanced control techniques, engineering management systems, etc. Original research and review articles are welcome.

Potential topics include but are not limited to the following:

- Intelligent monitoring techniques
- Data predictive analytics
- Smart sensors
- Internet of Things (IoT) and civil engineering
- Artificial intelligence and civil engineering
- Advanced measurement techniques
- Advanced control techniques
- Civil engineering management systems

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Lead Guest Editor
Sang-Bing Tsai, Civil Aviation University of China, Tianjin, China
sangbing@hotmail.com

Guest Editors
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chiahuei530@gmail.com

Yi-Zhang Jiang, Jiangnan University, Wuxi, China
yzjiang@jiangnan.edu.cn

B. B. Gupta, National Institute of Technology, Kurukshetra, India
bbgupta@nitkkr.ac.in

Wei Liu, The University of Sydney, Sydney, Australia
dqytliu@gmail.com

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